

The listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original). Method in computer-controlled confocal microscopy, for producing three-dimensional surface images of internal surfaces of cylinders in engine blocks, by using a confocal microscope having a microscope body, a tube attached to the latter and having a lens, which is preceded by a deflection optical system (2) having a horizontal translator (3).

Claim 2 (original). Device for implementing the method according to claim 1, having a deflection optical system (2) located ahead of the lens (1).

Claim 3 (currently amended). Device according to claim 2, ~~characterized in that~~ wherein the deflection optical system (2) consists of a reflection prism.

Claim 4 (currently amended). Device according to claim 2, ~~characterized in that~~ wherein the deflection optical system (2) consists of a surface mirror.

Claim 5 (currently amended). Device according to ~~one of~~
claims 2 to ~~4~~, characterized in that wherein the deflection
optical system (2) deflects the beam by less than 90 degrees.

Claim 6 (currently amended). Device according to ~~one of~~
claims 2 to ~~5~~, characterized in that wherein the lens (1) is a
standard lens having an equalization length of 45 mm.

Claim 7 (currently amended). Device according to ~~one of~~
claims 2 to ~~5~~, characterized in that wherein the lens (1)
possesses an equalization length that is less than 45 mm.

Claim 8 (currently amended). Device according to ~~one of~~
claims 2 to ~~7~~, characterized in that wherein the lens (1) can be
moved by means of a piezo setting element (3).

Claim 9 (currently amended). Device according to ~~one of~~
claims 2 to ~~7~~, characterized in that wherein the lens (1) can be
moved by means of a stepper motor.

Claim 10 (currently amended). Device according to ~~one of~~
claims 2 to ~~9~~, having a device for attaching and adjusting the
computer-controlled confocal microscope to be moved into

cylinders in engine blocks, to measure the internal surfaces of the cylinders.

Claim 11 (currently amended). Device according to claim 10, ~~characterized in that~~ wherein the attachment device possesses a clamping connection or screwed connection to the cylinder.

Claim 12 (currently amended). Device according to ~~one of~~ claims 10 ~~to 11~~, ~~characterized in that~~ wherein the microscope can be moved into the cylinder by means of a linear guide (13).

Claim 13 (currently amended). Device according to ~~one of~~ claims 10 ~~to 12~~, ~~characterized in that~~ wherein the microscope is adjustable and can be fixed in place with regard to the insertion depth, by means of the linear guide (13).

Claim 14 (currently amended). Device according to ~~one of~~ claims 10 ~~to 13~~, ~~characterized in that~~ wherein the attachment device or the adjustment device allows a rotation about the cylinder axis.

Claim 15 (currently amended). Device according to ~~one of~~ claims 10 ~~to 14~~, ~~characterized in that~~ wherein the attachment

allows an adjustment of the distance between the lens and the internal surface of the cylinder, in other words focusing.